

SHUROVSKIY, V.G.; VLADIMIROV, V.P.; GNATYSHENKO, G.I.; KUROCHKIN, A.F.;  
SHCHUROVSKIY, Yu.A.; ADSON, N.I.; GOLOVKO, V.V.

Some physicochemical properties of charges for and the products of  
the electric smelting of Dzhezkazgan copper concentrates. Izv.AN  
Kazakh.SSR.Ser.met., obog.i ognep. no.1:8-13 '61. (MIRA 14:6)  
(Dzhezkazgan--Copper--Electrometallurgy)

VLADIMIROV, V.P.; POLYVYANNYY, I.R.; SHCHUROVSKIY, Yu.A.

Some data on the enthalpy of alloys of the quaternary system  $\text{Cu}_2\text{S}$  -  
 $\text{FeS}$  -  $\text{ZnS}$  -  $\text{Na}_2\text{S}$ . Vest. AN Kazakh.SSR 19 no.2:21-29 F '63.

(MIRA 16:5)

(Enthalpy)

(Systems (Chemistry))

USSR/Human and Animal Physiology (Normal and Pathological)  
Liver.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79661.

Author : Shchurovskiy, Yu. V.

Inst :

Title : Functional Condition of the Liver During Different  
Forms of Endocarditis.

Orig Pub: Materialy po obmeny nauchn. inform. Ukr. n.-i. in-t  
klinich. reditsiny, 1957, vyp. I, 153-155

Abstract: No abstract.

Card : 1/1

SHCHERBANYI, V.I.V., Cand Med Sci -- (diss) "Concerning  
lesion of the liver and bile tracts in various forms of  
endocarditis." Kiev, [1958], 12 pp (Ukrainian Sci Res Inst  
of Clinical Medicine in Academician M.D. Strazhesko.  
Department of Functional Diagnosis) 200 copies (EL, 50-58, 131)

- 160 -

AUTHORS:

Pavlikovskiy, A., Shchuruvna, Y.

20-1-17/58

TITLE:

The Use of Zubarev's Method of Additional Variables in Statistical Physics (O primeneniim metoda dopolnitel'nykh perezmennykh Zubareva k statisticheskoy fizike).

PERIODICAL:

Doklady AN SSSR 1958, Vol. 118, Nr 1, pp. 61-64 (USSR)

ABSTRACT:

In 1953 D. N. Zubarev with the investigation of the problem of elementary stimulations in a real Fermi gas. developed the method of additional variables and used them for the calculation of the energy spectrum of these stimulations. The present work uses the method of the additional variables for the calculation of the statistical sum of a system of N particles being in interaction. For reasons of exactness the authors observe Fermi particles in a volume V which by means of a central two-particle potential are in interaction with one another (Bose-particles can be investigated analogously). The Hamiltonian of the system is represented in the form

$$\hat{H} = \hat{H}_0 + \hat{H}_1, \quad \hat{H}_0 = \sum_{i=1}^N \hat{p}_i^2 / 2m, \quad \hat{H}_1 = (1/2) \sum_{ij, i \neq j} \hat{w}_{ij}.$$

The added operators  $\hat{Q}_{\vec{k}} (|\vec{k}| < k_0, \vec{k} \neq 0, \hat{Q}_{\vec{k}}^+ = \hat{Q}_{-\vec{k}},$

Card 1/2

PAVLIKOVSKIY, A.; SHCHURUVNA, V.

Use of the method of added variables in statistical physics.  
Dokl. AN SSSR 124 no.1:69-71 Ja '59. (MIRA 12:1)

1. Institut fiziki Pol'skoy AN, Vrotslav. Predstavleno akademikom N.N.  
Bogolyubovym.  
(Statistical mechanics)

SHCHURYGIN, P.

Radio receiver using P401 and P13 transistors. Radio no. 73  
45-46 J1 '62. (MIRA 16:6)

(Transistor radios)

SHCHURZHETSKIY, M. N.

8

✓ Problem of formation of metallization coatings. L. V. Krasnichenko and M. N. Shchurzhetskiy. *Zhur. Tekh. Fiz.* 25, 701-95 (1955).—Most of the metal of the metallization jet is in the liquid state; the metallization jet, at distances usually used for metallization, consists of a large no. of isolated spherical particles, which have a solid oxide coating and a liquid core. The particles after impact with the surface splattered, forming streams and webs interlocked with each other. The metallization layer is an aggregation of particles, which are decompn. products of the sprayed particles. The coherence between the particles of the layer is conditioned not only by mech. mutual coherence, but also to a considerable degree by the coalescence of the separate masses of liquid metal. G. S. Macy.

sf ①



SHCHUS', A.P.

Road pavements with an additional layer of gravel and sand.

Avt. dor. 19 no.10:12-13 0 '56.

(MLRA 9:12)

(Pavements)

GROZDANOVICH, Ya.; PUZA, A.; Tekhnicheskoye sotrudnichestvo: ZELENKOVA, G.;  
MOL'NAR, I.; SHCHUSOVA, I.

Immunoadaptive stage in rats in relation to normal heterologous  
cells. Biul. eksp. biol. i med. 48 no. 11: 90-92 N '59.

(MIRA 13:5)

1. Iz otdeleniya eksperimental'noy biologii i genetiki Biologi-  
cheskogo instituta AN Chekhoslovakii (Praga) i kafedry biologii  
meditsinskogo fakul'teta universiteta imeni Komenskogo (Koshitsy).  
Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Chernigovskim.  
(ALLERGY exper.)  
(ERYTHROCYTES)

1. Subject, A. J. [Name] [Address] Boston, Massachusetts.

2. Reference, [Name], [Address], [City], [State], [Zip].

3. Reference, [Name], [Address], [City], [State], [Zip].

CC: [Name], [Address], [City], [State], [Zip].

SHCHUSTIN, N.A.

29898

Golosovaya ryeaktsiya zhiivotnykh kak forma signalinoy dyeyatyel'nostn.  
Soobshch. 1. Trudy fiziol. In-ta im. Pavlova, T. IV, 1949, s. 103-12.  
--Bibliogr: s. 112

SO: LETOPIS' NO. 40

SHCHUTSKAYA, E.Ye., kand.med.nauk (Novosibirsk)

Determination of sensitivity to streptomycin by intracutaneous tests. Klin.med. 34 no.8:73-74 Ag '56. (MIRA 12:8)

1. Iz Novosibirskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - zasluzhennyy vrach RSFSR A.G.Apinina, nauchyy rukovoditel' - prof S.E.Rabinovich).

(STREPTOMYCIN, eff.  
resist., determ. by skin tests)

KISELEV, I.S.; SHCHUTSKAYA, L.I.

Muffleless units for gas carburizing and carbonitriding of parts.  
Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform.  
17 no.1:40-44 '64. (MIRA 17:2)

TSAREVA, R.I. [TSarova, R.I.]; TARENT'YEV, V.M. [TSiarents'eu, V.M.];  
SHCHUTSKAYA, O.V.

Quantitative content of low-molecular organic acids in peat  
and mineral soils. Vestsi AN BSSR. Ser. biial. nav. no.3:  
62-66 '65. (MIRA 18:11)

SHCHUTSEAYA, Ye.I., kand. med.nauk, (NOSIBIRSKIY, M.V., SOLOVA, R.I.);  
SIBIRSOVA, A.I.

Epidemiologic significance of avian tuberculosis. Probl. tub.  
no.7:10-13 '64. (MIRA 18:10)

1. Novosibirskiy nauchno-issledovatel'skiy institut tuberkuleza  
(dir.- kand. med. nauk M.V. Sviridov).



SHCHUTSKAYA, Ye.I. (Novosibirsk).

Results of the administration of streptomycin associated with  
para-aminosalicylic acid in the treatment of pulmonary tuberculosis.  
Klin.med. 31 no.12:24-27 D '53. (MLRA 7:1)

1. Iz Novosibirskogo oblastnogo nauchno-issledovatel'skogo tuberkulezno-  
go instituta (nauchnyy rukovoditel' - professor S.Ye.Rabinovich).  
(Tuberculosis) (Para-aminosalicylic acid--Therapeutic use)  
(Streptomycin)

SHCHUTSKAYA, Ye.I., kand.med.nauk

Two cases of complications related to the combined use of streptomycin, thibone, and PAS. Probl.tub. 37 no.1:114 '59.

(MIRA 12:2)

1. Iz Novosibirskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - A.G. Aminina, nauchnyy rukovoditel' - prof. S.Ye. Rabínovich).

(STREPTOMYCIN) (SALICYLIC ACID) (ACETANILIDE)

SHCHUTSKAYA, Ye.I., kand.med.nauk

Use of Koch's test as a criterion of clinical cure in pulmonary tuberculosis. Probl.tub. no.8:61-68 '61. (MIRA 15:5)

1. Iz Novosibirskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - zasluzhennyy vrach RSFSR kand.med.nauk M.V. Svirezhev, nauchnyy rukovoditel' -- prof. S.Ye. Rabinovich).  
(TUBERCULOSIS)

TER-GRIGOR'YANTS, L.S.; SHCHUTSKAYA, Ye.K.; TEMIN, L.S.; PECHENKINA, A.P.

White clay and Solonka horizons in the Stavropol Paleocene. Biul.  
MOIP. Otd.geol. 33 no.5:143-146 S-O '58. (MIRA 12:1)  
(Stavropol Territory--Geology, Stratigraphic)

DIKENSHTSEYN, G.Kh.; KUTUZOVA, V.V.; MASHRYKOV, K.K.; BABAYEV, A.G.;  
POL'STER, L.A.; YUFEREV, R.F.; SHISHOVA, A.I.; BAREYEV,  
R.A.; MAKAROVA, L.N.; MURADOV, K.; PYANOVSKAYA, I.A.;  
SEMOV, V.N.; SIROTINA, Ye.A.; TURKINA, I.S.; FEL'DMAN,  
S.L.; KHON, A.V.; KUNITSKAYA, T.N.; GOLENKOVA, N.P.;  
ROSHINA, V.M.; FARTUKOV, M.M.; SHCHUTSKAYA, Ye.K.;  
ALTAYEVA, N.V.; BYKADOROV, V.A.; KOTOVA, M.S.; SMIRNOV,  
L.M.; IBRAGIMOV, M.S.; KRAVCHENKO, M.F.; MARKOVA, L.P.;  
ROZYYEVA, T.R.; UZAKOV, O.; SLAVIN, P.S.; NIKITINA, Ye.A.;  
MILOGRADOVA, M.V.; BARTASHEVICH, O.V.; STAROBINETS, I.S.;  
KARIMOV, A.K.

[Splicing of the wires of overhead power transmission lines]  
Soedinenie provodov vozdukhnykh linii elektroperedachi. Mo-  
skva, Energiia, 1964. 69 p. (Biblioteka elektromontera,  
no.132) (MIRA 17:9)

SHCHUTSKIY, A. . inzh. .

New-type deflectors for ventilating shafts. Sel'.stroi. 14 no.6:26  
Je '59. (MIRA 12:9)

(Farm buildings--Heating and ventilation)

SHCHUTSKIY, A.I.

Ventilation of cow barns. Vod. 1 san.tekh.no.6:27-31 Je '61.  
(MIRA 14:6)

(Dairy barns--Heating and ventilation)

SECHUTSKIY, A.I.

Inspection of operating monitor ventilation panels. Sbor. trud.  
NIIST no.7:150-159 '61. (MIRA 15:1)  
(Ventilation)



SHCHUTSKIY, A.I.

Studies of the functioning of a horizontal system of ventilation  
in a cow barn. Sbor.trud.NIIST no.9:95-104 '61. (MIRA 15:8)  
(Dairy barns---Ventilation)

SMITH, A.I.

Aerodynamic tests of exhaust ventilation shafts. Sbor.trud.NIIST  
no.9:114-119 '61. (MPA 15:8)

(Ventilation)

ADAMOVICH, P.V.; BATURIN, V.V.; VAKHVAKHOV, G.G.; VAYNGAUZ, L.G.;  
VILENSKIY, Ye.Ya.; GAMBURG, P.Yu.; DAVYDOV, Yu.S.; KARPIS,  
Ye.Ye.; KUZNETSOVA, Z.I.; KOP'YEV, S.F.; LIVCHAK, I.F.;  
LOBACHEV, P.V.; LEV, G.M.; NOTKIN, Ye.M.; FIRUMOV, A. I.;  
POLIKARPOV, V.F.; PROTOPOPOV, A.P.; REPIN, N.N.; SLADKOV,  
S.P.; TALIYEV, V.N.; TROITSKAYA, F.B.; FEDOROV, M.N.;  
SHEVELEV, F.A.; SHKABEL'NIKOVA, L.P.; SHCHUTSKIY, A.I.;  
SMIRNOV, L.I., inzh., nauchnyy red.; SMIRNOVA, A.P., red.  
izd-va; MOCHALINA, Z.S., tekhn. red.; RODINOVA, V.R., tekhn.  
red.

[Present level and prospects for the development of sanitary  
engineering and the production of sanitary engineering equip-  
ment] Sovremennyi uroven' i perspektivy razvitiia sanitarnoi  
tekhniki i proizvodstva sanitarno-tekhnicheskogo oborudova-  
niia. Moskva, Gosstroizdat, 1962. 283 p. (MIRA 15:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut  
sanitarnoy tekhniki.

(SANITARY ENGINEERING)

SHCHUTSKIY, I.R.

Automatic machine designed by mechanic V. Korbut. Mashinostroitel'  
no.9:42-43 S '59. (MIRA 13:2)  
(Sheet-metal work)

SHCHUTSKIY, I. V.

Cand Med Sci - (diss) "Therapeutic effectiveness of cholinopositive substances in several dermatoses." Stalino, 1961. 16 pp; (Ministry of Public Health Ukrainian SSR, Stalino State Med Inst imeni A. M. Gor'kiy); 220 copies; price not given; (X1, 7-61 sur, 263)

SHCHETSNIY, I.V., aspirant

Mechanism of the therapeutic action of some choline-negative substances (proserine and acetylcholine chloride) in diseases of the skin. Trudy Khar. med. inst. no.50L235-240 '62.

(MIPA 19:1)

1. Kafedra dermatologii (zav. - prof. I.S. Popov) i kafedra patologicheskoy fiziologii (zav. - prof. D.Ye. Al'pern) Khar'kovskogo meditsinskogo instituta.

SHCHUTSKIY, I.V.

Cholinergic indices in some skin diseases. Vrach.delo no.1:19-  
22 Ja '63. (MIRA 16:2)

1. Kafedra dermatologii (zav. -- prof. I.S. Popov) i kafedra  
patologicheskoy fiziologii (zav. -- chlen-korrespondent AN  
UkrSSR, zasluzhennyy deyatel' nauki, prof. D.Ye. Ai'pern)  
Khar'kovskogo meditsinskogo instituta.  
(SKIN--DISEASES) (CHOLINE)

SHCHETSKYY, I.V., kand. med. nauk

Complications following the use of iodine preparations. Vestn. Sovm. i ven. 37 no.8:31-35 Ag't 3 (MIRA 1.3:1)

1. Kozlovyy I.I. (zav. - staryshy naukovy spetsialist A.I. Roman) Ukrainskogo nauchno-issledovatskogo laboratoriy - meditsinskogo instituta (dir. - dokent A.I. Pyatkov).



SHCHETSKIY, I.V., kand. med. nauk

Importance of cholinergic indices in the pathogenesis and treatment of some dermatoses. Vest. dermat. i ven. 37 no.6:13-15. Je '64.

(MIRA 17:6)

1. Kafedra dermatologii (zav. - prof. I.I. Popov) i kafedra patologicheskoy fiziologii (zav. - chlen-korrespondent AN Ukr SSR, zasluzhennyy deyatel' nauki prof. D. Ye. Al'pern) Khark'kovskogo meditsinskogo instituta (dir. - dozent B.A. Androschyn).

SHCHUTSKIY, S.V., laureat Stalinskoy premii, inzhener, redaktor; PURKIN,  
V.S.; ELCHENKIN, A.L., redaktor; ERLIKH, Ye.Ya., tekhnicheskiy  
redaktor

[Vinyl plastic] Viniplast. Leningrad, Gos. nauchno-tekhn. izd-vo  
khimicheskoi lit-ry, 1953. 147 p. [Microfilm] (MLRA 7:10)  
(Vinyl polymers)

SHCHUTSKIY, S.V., redaktor; SHUR, Ye.I., redaktor; ERLIKH, Ye.Ya., tekhnicheskii redaktor

[Vinyl plastic; brief review of its properties and methods of working it] Viniplast; kratkii obzor svoistv i metodov obrabotki. Leningrad, Gos.nauchno-tekhn.izd-vo Khim.lit-ry, 1955. 33 p. (MIRA 9:3)

1. Okhtenskiy khimicheskii kombinat.  
(Vinyl polymers)

• SHCHUTSKIY, S. V.

*Plastic* J Polychlorovinyl resins. G. M. Nodel'man, A. V. Kupfer, V. I. Sedlis, V. S. Purkin, and S. V. Shchutskii. U.S.S.R. 104,703, Feb. 25, 1957. Copolymerization of chlorovinyl compds. with styrene acrylonitrile, and acrylic or methacrylic acid esters is carried out with addn. of 3-10% Et or Bu acrylate based on the wt. of the chlorovinyl compd. This addn. improves the molding qualities of the plastic and lowers the prepn. temp. of the polychlorovinyl resin.  
M. Hesch

SHIFRINA, V.S.; SAMOSATSKIY, N.N.; SHCHUTSKIY, S.V., red.; SHUR, Ye.I.,  
red.; FOMKINA, T.A., tekhn.red.

[High-pressure polyethylene; reference manual] Polietilen  
vysokogo davleniia; spravochnoe rukovodstvo. Pod red. S.V.  
Shchutskogo. Izd.2., dop. Leningrad, Gos.nauchno-tekhn.  
izd-vo khim.lit-ry, 1958. 89 p. (MIRA 12:7)  
(Polyethylene)

SHIFRINA, Vitta Samsonovna; SAMOSATSKIY, Nikolay Nikolayevich; SHCHUTSKIY,  
S.V., red.; SHUR, Ye.I., red.; ERLIKH, Ye.Ya., tekhn. red.

[Polyethylene production and properties] Polietilen; poluchenie i  
svoistva. Pod red. S.V.Shchutskogo. Izd.3., dop. i ispr. Leningrad,  
Gos. nauchno-tekhn. izd-vo khim. lit-ry, 1961. 174 p.

(MIRA 14:8)

(Polyethylene)

SHIFRINA, Vitta Samsonovna; SAMOSATSKIY, Nikolay Nikolayevich; SHCHUTSKIY,  
S.V., red.; GRIVA, Z.I., red.; FOMKINA, T.A., tekhn. red.

[Polyethylene; production and uses] Polietilen; pererabotka i pri-  
menenie. Pod red. S.V.Shutskogo. Leningrad, Gos.nauchno-tekhn.izd-vo  
khim.lit-ry, 1961. 261 p. (MIRA 14:12)  
(Polyethylene)

BARAM, A.A.; KOKUSHKIN, O.A.; MISHCHENKO, K.P.; FLIS, I.Ye.; ARKHIPOVA,  
Z.V.; VAVILOVA, I.I.; MONAKHOVA, Ye.V.; SHCHUTSKIY, S.V.

Recovery of complex catalysts from dispersions of polyethylene  
by means of methanol in a rotary apparatus. Plast. massy  
no.11:58-59 '63. (MIRA 16:12)



SEMENOVA, A.S.; PARAMONKOV, Ye.Ya.; FEDOTOV, B.G.; GOL'DENBERG,  
A.I.; IL'CHENKO, P.A.; CHAPLINA, A.M.; SKURIKHINA, V.S.;  
SAZHIN, B.I.; MATVEYEVA, Ye.N.; KOZOL, A.A.; DYN'KINA,  
G.M.; SIROTA, A.G.; RYBIKOV, Ye.P.; GERBILSKIY, I.S.;  
SHCHUTSKIY, S.V., red.; SHUR, Ye.I., red.

[Medium pressure polyethylene] Polietilen srednego davlenia.  
Moskva, Khimiia, 1965. 89 p. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut polimerizatsionnykh  
plastmass (for all except Shchutskiy, Shur).

L 13288-66 EWT(d)/EWT(m)/EWP(v)/EWP(j)/T/EWP(k)/EWP(h)/EWP(l) RM  
 ACC NR: AP6000321 (A) SOURCE CODE: UR/0286/65/000/021/0010/0010

INVENTOR: Belotelov, N. A.; Verkhovukov, B. A.; Kal'noy, V. G.; Kryuchkov, A. D.;  
 Litvin, A. P.; Mel'nichenko, V. Z.; Morozov, G. N.; Olerinskiy, B. I.; Klebanova, A.  
 S.; Solnyshkin, L. M.; Fridman, A. N.; Shilov, L. A.; Shchutskiy, S. V.; Yanovskiy,  
 E. A.

ORG: none

TITLE: A device for automatic control of an installation for polymerizing gaseous  
 olefins. Class 12, No. 175923 [announced by the Leningrad Affiliate of the All  
 Union Scientific Research and Design Institute for Chemical Machine Building (Len-  
 ingradskiy filial Vsesoyuznogo nauchno-issledovatel'skogo i konstruktorskogo insti-  
 tuta khimicheskogo mashinostroyeniya)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 10

TOPIC TAGS: polymerization, olefin, chemical engineering, automatic control equip-  
 ment

ABSTRACT: This Author's Certificate introduces a device for automatic control of an

Card 1/3

UDC: 66.05-5 : 66.095.26 : 678.742.2

L 13288-66

ACC NR: AP6000321

0  
installation for polymerizing gaseous olefins, e.g. in production of low pressure polyethylene. The unit consists of two temperature controllers connected to a flow regulator for the product reactor, and a pressure regulator connected to the controller for the coolant. For increased productivity and optimization of the process, one temperature controller is connected through a speed reducer to the pressure controller which is connected through a second speed reducer to the flow regulator for the product reactor. The other temperature controller is connected to the flow regulator for the coolant.

Card 2/3

L 13288-66

ACC NR: AP6000321

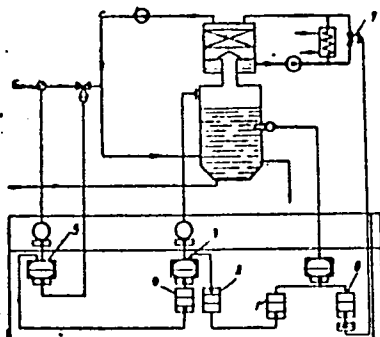


Fig. 1. 1 - first temperature controller; 2 - first speed reducer; 3 - pressure regulator; 4 - second speed reducer; 5 - flow regulator for the product; 6 - second temperature controller; 7 - flow regulator for the coolant.

SUB CODE: 07/ SUBM DATE: 01Feb65/

Card 3/3

SHCHUTSKIY, Vitaliy Ivanovich, kand.tekhn.nauk,dotsent

Use of the probability theory and mathematical statistics in studying resistance changes in the insulation of electrical networks in operating mine sections. Izv.vys.ucheb.zav.; elektromekh. 7 no.1:73-79 '64.  
(MIRA 17:9)

1. Kafedra avtomatizirovannogo privoda i elektrifikatsii gorn'kh predpriyatii Moskovskogo instituta radioelektroniki i gornoj elektromekhaniki.

SHCHUTSKIY, V.I., inzh.

Studying the condition of the insulation of section electric networks in mines of the Luganskugol' Combine. Izv. vys. ucheb. zav.; gor. zhur. 5 no.1:124-132 '62. (MIRA 15:4)

1. Moskovskiy gornyy institut. Rekomendovana kafedroy obshchey i gornoy elektrotekhniki Moskovskogo gornogo instituta.  
(Lugansk region--Electricity in mining)

SHCHUTSKIY, V. I., inzh.

Size of settings for current-leakage prevention. Bezop. truda  
v prom. 6 no.9:24-25 S '62. (MIRA 16:4)

1. Moskovskiy institut radioelektroniki i gornoy elektro-  
mekhaniki.

(Electricity in mining—Safety measures)  
(Electric currents—Leakage)

MEN'SHOV, B.G., inzh.; SHCHUTSKIY, V.I., inzh.

Operation of low-voltage networks in mine sections. Bezop  
truda v prom. 7 no.4:21-22 Ap '63. (MIRA 16:4)

1. Moskovskiy institut radioelektroniki i gornoy elektro-  
mekhaniki.

(Electricity in mining)



MEN'SHOV, B.G.; SHCHUTSKIY, V.I.

Resistivity of the insulation on low-voltage motors and apparatus  
in mines. Ugol' Ukr. 7 no.6:27-28 Je '63. (MIRA 16:8)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.

BARASH, M.I., dotsent; SHCHUTSKIY, V.I., dotsent

Condition of the insulation of underground electric networks with up to 1,000 volts in Eastern Siberia mining enterprises. Izv.vys. ucheb.zav.; gor.zhur. 7 no.12:104-108 '64.

(MIRA 18:2)

1. Irkutskiy politekhnicheskiy institut (for Barash). 2. Moskovskiy institut radielektroniki i gornoy elektromekhaniki (for Shchutskiy). Rekomendovana kafedroy avtomatizirovannogo privoda i gornoy elektromekhaniki.

GLADILIN, L.V., doktor tekhn nauk; SHCHUTSKIY, V.I., kand. tekhn. nauk

Faultless operation of electric mine systems with ratings  
up to 600 volts. Bezop. truda v prom. 8 no.9:35-36 S 161  
(MIRA 18:1)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.

GLADILIN, I.V., dr. tekhn. nauk; ISCHURINSKY, V.I., kand. tekhn. nauk

Norms on insulation resistance in electrical systems in mines.  
From energ. 19 no. 637-613 J. 661 (MIRA 1701)

SHCHYPKO, L. [Krivoy Rog]

"Giant of the depths." Nauka i zhyttia 11 no.3:34 Mr '62.  
(MIRA 15:8)

(Krivoy Rog Basin--Mines and mineral resources)

SVETOZAROVA, O.I.; SHDANOVA, V.V.; NESMEYANOVA, T.S.; LEVASHOVA, E.P.;  
KOZOREZOVA, A.I.; NEMCHENKO, S.A.; MINETS, T.M.

Studying the composition of the aromatic hydrocarbons of  
gasolines. Nefteper. i neftekhim. no.6:19-21 '63  
(MIRA 17:7)

1. Groznenskiy neftyanoy nauchno-issledovatel'skiy institut.

EL'PINER, I.Ye.; SHEBALDINA, A.D.

Photodynamic effect of dyes on yeast cells subjected to the  
action of ultrasonic waves. Radiobiologiya 3 no.5:646-650 '63.  
(MIRA 17:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

L 23925-66 EWT(1)/T JK  
ACC NR: AP6014941

SOURCE CODE: UR/0217/65/010/004/0609/0613

AUTHOR: El'piner, I. Ye.; Shebaldina, A. D.

ORG: Institute of Biological Physics, AN SSSR, Moscow (Institut biologicheskoy fiziki AN SSSR)

TITLE: Photodynamic effect of certain derivatives of heterocyclic and aromatic compounds formed under the action of ultrasonic waves

SOURCE: Biofizika, v. 10, no. 4, 1965, 609-613

TOPIC TAGS: tryptophan, tyrosine, heterocyclic base compound, saccharomyces, absorption band, ultrasonic effect, luminescence

ABSTRACT: The photodynamic effects of heterocyclic compounds: nitrogen bases (cytosine), aromatic amino acids (tryptophan and tyrosine), and derivatives produced under the action of ultrasound waves, were studied. A solution of cytosine, sonicated in the presence of argon (but not of oxygen, hydrogen or helium), acquires the ability for greenish-yellow luminescence in the visible range (luminescence maximum 515 millimicrons) and exhibits a photodynamic effect (established with respect to yeast cells). Solutions of aromatic amino acids (tryptophan and tyrosine), sonicated in the presence of oxygen (but not argon), exhibited a photodynamic effect. The solutions acquired a reddish-yellow color after sonication in the presence of oxygen; the color was less pronounced after sonication in the presence of argon, and the solutions remained colorless if sonicated after preliminary saturation

Card 1/2

UDC: 577.3



L 23925-66

ACC NR: AP6014941

2

with hydrogen. The nature of the chemical conversions induced by ultrasound waves depended to a considerable degree on the structure of the sonicated substances, as well as on the nature of the gas present during sonication. The pigment mycetin, produced during the vital activity of Actinomycetes of the violet group, exhibited a photodynamic effect with respect to cells of *Saccharomyces cerevisiae*. Three absorption bands in the ranges 610-585, 560-540 and 510-494 millimicrons, were observed in the spectrophotometric curve of an alcohol solution of mycetin. The authors thank O. I. Artamonova for providing the mycetin powder. Orig. art. has: 2 figures and 4 tables. [JPRS]

SUB CODE: 06, 20 / SUBM DATE: 07May64 / ORIG REF: 006

Card 2/2 BK

EL'PINKER, I. M.; SHCHALEINA, A. B.; BRAGINSKAYA, F. I.

"Vliyaniye ul'trazvukovoy voln na fotodinamicheskiy effekt i metakhromaticeskuyu reaktsiyu virusa tabachnoy mozaiki."

report presented at Symp on Virus Diseases, Moscow, 6-9 Oct 64.

Institut biofiziki, ANSSSR, Moskva.

EL'PINER, I.Ye.; SHEBALDINA, A.D.; BRAGINSKAYA, F.I.

Photodynamic action of dyes on the tobacco mosaic virus subjected to the action of ultrasonic waves. Dokl. AN SSSR 163 no.1:242-245 J1 '65. (MIRA 18:7)

1. Institut biologicheskoy fiziki AN SSSR. Submitted September 14, 1964.

EL'PINER, I.Ye.; SHFBALDINA, A.D.

Photodynamic action of some derivatives of heterocyclic and aromatic compounds forming under the effect of ultrasonic waves. Biofizika 10 no.4:609-613 '65. (MIRA 18:8)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

MASHEKOVICH, K.A.; SHEBALDINA, M.G.; ZOLOTOVA, T.N.

Buried tectonic faults in Devonian sediments in the Volga  
Valley portion of Saratov Province. Gaz.prom. 10 no.11:  
6-13 '65. (MIRA 19:1)

SHEBALENKOV, G.I.; MANCHINSKIY, V.G.; SHKODIN, K.K.; ANDRONOV, V.N.

Using ultrasonic waves to accelerate the removal of sulfur  
from liquid iron. Trudy LPI no.225:143-148 '64.

(MIRA 17:9)

SHEBALIN, D.V., polkovnik; YEFAROV, S.G., polkovnik, red.; KARPOV,  
I.I., tekhn. red.

[Topography; elementary data for soldiers] Topografiia; na-  
chal'nye svedeniia dlia soldat. Moskva, Voen.izd-vo M-va vooru-  
zheniia sil SSSR, 1947. 53 p. (MIRA 15:6)  
(Military topography)

~~SHEBALIN~~, D.V., polkovnik; YURKOV, G.L., mayor, red.; KARPOV, I.I.,  
tekhn. red.

[Military topography] Voennaia topografiia; uchebnoe po-  
sobie. 12. izd. [n.p.] Voen.izd-vo narodnogo komissariata  
obor., 1946. 211 p. (MIRA 16:8)  
(Military topography)



L 13333-63 EPR/EWG(s)-2/EPF(c)/EWT(m)/FBO/BDS/ES(s)-2 AEDC/  
AFFTC/ASD/AFMDC/RPL/SSD Ps-l/Pw-l/Pr-l/Pt-l BW/WW/JW

ACCESSION NR: AP3002756

S/0120/63/000/003/0201/0202

AUTHOR: Shebalin, I. Yu.

TITLE: Evaporativity of liquid hydrogen kept in SD-10G Dewar vessels

SOURCE: Pribery\* i tekhnika eksperimenta, no. 3, 1963, 201-202

TOPIC TAGS: hydrogen evaporativity, SD-10G Dewar

ABSTRACT: To solve the problem of long-time storage of liquid hydrogen, evaporativity of hydrogen with various initial para-concentrations was investigated. A standard 10-liter SD-10G Dewar with a high-vacuum insulation and a liquid-nitrogen-cooled screen was used in the experiments. Results obtained with the regular liquid hydrogen (25% p-H<sub>2</sub>) and with the liquid-nitrogen-temperature converted hydrogen (46.5% p-H<sub>2</sub>) are reported. "In conclusion I wish to thank A. B. Fradkov for his assistance and cooperation in carrying out the above work." Orig. art. has: 2 figures and 3 formulas.

ASSOCIATION: Fizicheskii institut AN SSSR (Institute of Physics, AN SSSR)

SUBMITTED: 19Jul62

DATE ACQ: 12Jul63

ENCL: 00

SUB CODE: PH

NO REF SOV: 002

OTHER: 001

Card 1/1

SHCHUTSKOY, K. A.

PA 75T85

USSR/Radio  
Capacitors  
Radio Receivers, Superheterodyne

Feb 1948

"Tikond Condensers," K. A. Shchutskoy, 1 p

"Radio" No 2

Describes construction and performance of titanium dioxide condensers used in superheterodyne radio sets. These compensating condensers with positive temperature coefficient are included in sets to compensate for parameter changes in the heterodyne circuit.

ID

78r85

SHCHUTSKOY, K. A.

"The Reactive Tube," Radio, No.2, 1949

SHCHUTSKOY, K. A.

"Calculation of Small Inductances," Radio, No.6, 1949

SHCHUTSKOY, K. A.

"A Wide-Band Low-Frequency Amplifier," Radio, No.10, 1949

SHCHUTSKOY, K

USSR/Radio - Television Receivers

May 50

"LTShch-1 Television Set," K. Shchutskoy, 3 pp

"Radio" No 5

Describes, with schematic diagram, LTShch-1 (Shchutskoy amateur television set). Uses two superhet channels for video and audio with first two stages common to both. Simple construction, sensitivity 300-400 microvolts, good performance on room antenna within city limits.

159T101

USSR/Radio - Television  
Receivers.

Apr 51

"Improving the LTShch-1 Television Receiver," K.  
Shchutskoy

"Radio" No 4, pp 46, 47

Suggests various methods to improve work of LTShch-1 television receiver, namely: (1) Cut down coupling between tank circuit and oscillator tube (6SA7) in order to avoid frequent readjustment of oscillator frequency; (2) use of active resistance equal to characteristic impedance of feeder to develop voltage for grid of 1st tube (this resistance is varied from

181T102

USSR/Radio - Television (Contd)

Apr 51

50 to 100Ω to obtain perfect matching; (3) use of 80-μh choke in control grid circuit of video amplifier to give better frequency response in 5 Mc region and thus better definition.

181T102

SHCHUTSKOY K.

SHCHUTSKOY E.

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USSR/Radio - Television  
Antennas

Aug 51

"Selecting Antennas for Television Sets," K.  
Shchutskoy

"Radio" No 8, pp 46-48

Tells how to select antennas for various distances from Moscow and Leningrad television centers, with graphic table of antenna types. Also includes graph of Moscow television center field intensity at various distances calcd from Vvedenskiy's formula.

194T117

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SHCHUTSKOY, K.

USSR/Radio - Receivers  
Automatic Volume Control

Oct 51

"Automatic Volume Control," K. Shchutskoy

"Radio" No 10, pp 21-27

Describes various systems of automatic vol control (AVC), e.g., simple AVC, delayed AVC, amplified-delayed AVC, noiseless AVC, etc. States that delayed AVC is used in most radio broadcast receivers. Receivers SVD, 6N-1, and 9N-4 had a circuit to eliminate the major defect of delayed AVC, i.e., shunting of the last filter by the input impedances of 2 tubes, but this required a sep tube (a double diode) and is not used at present.

208T52

AID P - 4420

Subject : USSR/Radio  
Card 1/1 Pub. 89 - 18/18  
Author : Shchutskoy, K.  
Title : Computing the capacitance of bypass capacitors  
Periodical : Radio, 4, 55-56, Ap 1956  
Abstract : A theoretical analysis to assist the amateur-builder of  
a radio set. A table gives data on different tubes.  
Two diagrams.  
Institution : None  
Submitted : No date

546

Designing AM and FM (Cont.)

methods of selecting radio receiver circuits and to the distribution of parameters between the various stages, their complete design, and methods of calculating resultant characteristics. The design of AM and FM superheterodyne receivers for communications, national radio link, and broadcasting is presented in detail. In the discussion on receiver amplifier stages the author used the conditions for stable amplification factors which he took from his earlier work on amplifier stability. As to the calculation of image channel selectivity, the author states that formulas introduced by him are not found in other textbooks. The derivation of these formulas for the input unit and for the h-f amplifier is given in the Appendix. In the text, characteristics and other data on Soviet-made tubes and semiconductor diodes are given. There are 15 Soviet references. No personalities are mentioned.

TABLE OF  
CONTENTS:

Preface	3
Ch. I. General Introduction to AM and FM Radio Receivers and Their Basic Requirements	9
1-1. General introduction to AM and FM radio receivers	9
1-2. Basic requirements of AM and FM radio receivers	15

Card 2/8

SHCHUTSKOY, K.A.

Operation stability of cathode followers. Nauch.dokl.vys.  
shkoly; radiotekh. i elektron.no.1:275-279 ' 58.

(MIRA 12:1)

1. Kafedra radiopriemnykh ustroystv Taganrogskego radiotekh-  
nicheskogo instituta.  
(Amplifiers, Electron-tube)

SOV/162-58-3-17/26

2(2)

AUTHOR:

Shchutskoy, K.A.

TITLE:

The Coefficient of Stable Amplification of an Amplifier With a Common Grid at Frequencies up to 350 Megacycles (Koeffitsiyent ustoychivogo usileniya usilite-lye s obshchey setkoy na chastotakh 350 Mgts)

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Radiotekhnika i elektronika, 1958, Nr 3, pp 129-139 (USSR)

ABSTRACT:

The author investigates the electrode admittance of a vacuum tube working in a common grid circuit, the amplification factor of an amplifier stage, the conditions for self-excitation and stable operation of amplifiers with a common grid on account of parasite feedbacks within the tube. The factor of stable amplification of a single-stage amplifier is

$$K_{st} = \frac{S + j\omega C_g}{1 + j\omega C_g R_g}, \quad \omega \ll \frac{1}{R_g C_g},$$

and therefore, the general condition of the stability may be written

Card 1/3

SOV/162-58-3-17/26

The Coefficient of Stable Amplification of an Amplifier with a Common Grid at Frequencies up to 350 Megacycles

The coefficient of stable amplification of a stage with a common grid working in a multi-stage amplifier with a common cathode is

whereby  $C_{eq} = C_c + C_n$  is the equivalent transfer capacitance of a tube in an amplifier with a common cathode;  $S_1$  is the transconductance of a tube in a common cathode amplifier;  $R_2$  is the resonant resistance of an amplifier network with a common cathode. The experimental investigation of the self-excitation condition of a stage with one triode of the tube 6N15P at a frequency of 39 mc confirmed the formula

Card 2/3

SOV/162-58-3-17/26

The Coefficient of Stable Amplification of an Amplifier with a Common Grid at Frequencies up to 350 Megacycles

for the maximum amplification coefficient. There are 2 diagrams, 1 graph, 2 tables and 1 Soviet reference.

ASSOCIATION: Taganrogskiy radiotekhnicheskiy institut (Taganrog Institute of Radio Engineering)

SUBMITTED: April 11, 1958

Card 3/3

SHCHUTSKOY, K.A.

Operational stability of single-stage pentode amplifiers. Nauch.  
dokl. vys. shkoly; radiotekh. i elektron. no.2:250-266 '59.

(MIRA 14:5)

1. Kafedra radiopriyemnykh ustroystv Taganrogskogo radiotekhnicheskogo instituta.

(Amplifiers (Electronics))



SHCHUTSKOY, K.A.

Selectivity of a superheterodyne receiver in a mirror channel.  
Trudy VZEI no.18:92-111 '61. (MIRA 17:1)

LEEDEV, Vsevolod Leondovich; SHCHUTSKOY, K.A., otv. red.;  
VENGEENYUK, L.I., red.; SHEFER, G.I., tekhn. red.

[Radio-receiving devices] Radiopriemnye ustroistva. Izd.  
4., perer. i dop. Moskva, Sviaz'izdat, 1963. 407 p.  
(MIRA 17:1)

(Radio--Receivers and reception)

ALEKSEYEV, S.K.; SHCHUTSKOY, K.A.

Stability of the form of the frequency characteristic of  
an electron tube amplifier with two-stage filters. Elektros-  
viaz' 18 no.2:69-73 F '64. (MIRA 17:3)

СИБИРЯКОВ, К.С., [unclear] [unclear], В.Л., [unclear], ред.  
[radio receiver design] [unclear] импульсных прием-  
ников. [unclear], Энерг. инд., 1964. 71 p. (MIRA 1811)

ACC NR: AT6014758

SOURCE CODE: UR/0000/65/000/000/0101/0109

AUTHORS: Karasik, V. R.; Kurganov, G. B.; Yershov, V. G.; Shebalin, I. Yu.; Kopylovskiy, B. E.; Ivanov, V. S. 89

ORG: none

TITLE: Superconducting solenoids of niobium alloys with zirconium

SOURCE: Soveshchaniye po metallovedeniyu i metallofizike sverkhprovodnikov. 1st, 1964. Metallovedeniye i metallofizika sverkhprovodnikov (Metallography and physics of metals in superconductors); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 101-109

TOPIC TAGS: superconductivity, superconducting alloy, niobium alloy, zirconium containing alloy, solenoid / S-60 solenoid, S-50 solenoid, B-3 solenoid, B-solenoid

ABSTRACT: Superconducting solenoids for creating high magnetic fields are discussed. A brief historical review is presented of the development of superconducting solenoids and of the use of niobium-zirconium alloys. Three equivalent circuits for a superconducting solenoid connected with a power supply are presented and discussed. Some of the physical problems of superconducting niobium-zirconium alloy solenoids and the means of overcoming them are given. The construction and properties of four superconducting solenoids (S-60, S-50, B-3, and B-1) are described. The solenoids are wound with 0.25-mm diameter wire of 75% Nb—25% Zr alloy which is

Card 1/2

SHEBALIN N. V.  
USSR/Geophysics - Seismology

FD-2581

Card 1/1            Pub. 44 11/19

Author            : Shebalin, N. V.

Title             : ~~USSR/Geophysics - Seismology~~  
The relations between earthquake energy intensity and focus depth

Periodical        : Izv. AN SSSR, Ser. geofiz, Jul-Aug 55, 377-380

Abstract          : The author discusses the important practical possibility of evaluating the forces of vibration (earthquake intensity) at the earth's surface from the energy intensity of the earthquake and the depth of the seat as determined from instrumental data. With the aim of studying the mutual relations to these quantities he investigated 54 earthquakes with focus depths from 5 to 640 km. The data on the force of vibration in units of balls (according to the 12-ball scale) was taken from the combined catalogue of observations of seismic stations USSR, the combined bulletin of BCIS, and data from the individual general and periodical publications.

Institution       : Geophysics Institute, Academy of Sciences USSR

Submitted         : April 22, 1955

SHEBALIN, N.V.

Instrumental observations in the Moscow Central Seismic Station.  
Trudy Geofiz.inst. no.30:176-192 '55. (MIRA 9:6)  
(Moscow--Seismology--Observations)

SHEBALIN, N.V., Candidate of Physicomathematical Sciences

"Determination of grading of earthquakes according to instrument data of remote seismic stations", a paper given at the 50th Anniversary Session of the Seismic Station "Pulkovo", 25-29 Sep 1956, Leningrad.

SUM. I322



SHERALIN, N. V.

(Moscow)

"Über die Verwendung von Endbebenmagnitud und Intensitäten für die Bestimmung der Tiefe der Asthenosphäre im Gebiet von Vrancea, Rumänien."

paper presented (S. L. Solov'yev) at 1st Seismological Conference of the Geophysics Inst. Czechoslovakian Acad. Sci., Liblice, 22 March 1957.

Fergakademi (Berlin) No. 4, 1957.

BALAKINA, L. M.

X(10)

PHASE I BOOK EXPLOITATION

807/1663

Abkhaziya nauk SSSR, Komitet po geodesii i geofizike.

Teslay doklady na XI General'noy assemblye Mezhdunarodnogo geodesicheskogo i geofizicheskogo soyuza. Mezhdunarodnaya assotsiatsiya seismologii i fiziki nedr zemli (Abstracts of Reports Submitted to the XI General Assembly of the International Union of Geodesy and Geophysics. The International Association of Seismology and Physics of the Earth's Interior) Moscow, 1957. 102 p. /Parallel texts in Russian and English/ 1,500 copies printed.

No additional contributors mentioned

PURPOSE: This booklet is intended for geophysicists, especially those specializing in seismology.

COVERAGE: This collection of articles deals with the structure and composition of the Earth and phenomena related thereto. The majority of the articles concern studies of earthquakes and seismic waves. Other articles cover the structure of the Earth's crust and mountain roots; the elastic properties of rocks at high pressures; the piezoelectric effect of rocks and the method of modelling in tectonophysics. The collection also contains articles on the Earth's thermal history, the microseismic method of tracing stresses and others.

Card 1/3

Shmidt, O.Yu. (deceased), and N.Yu. Levin. Origin and Composition of the Earth

96

Shubalin, N.V. Correlation Between Magnitude and Intensity of Earthquakes and Asthenosphere

97

AVAILABLE: Library of Congress (QH 534.A4)

Card 3/3

NSA/gsp  
5-28-99

*SA 13/11/11*  
AUTHORS: Andreyev, S. S. and Shebalin, N. V.

49-7-7/14

TITLE: On utilising short period seismographs for separating exchange waves on recordings of distant earthquakes.  
(O primeneniі korotkoperiodnykh seysmografov dlya vydeleniya obmennyykh voln na zapisyakh udalennykh zemletryaseniy).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1957, No.7, pp. 931-933 + 1 plate (USSR)

ABSTRACT: Experience in the study of the structure of the Earth's crust in South Western Turkmenia has shown that exchange waves of the type PS can be used for determining the depth of location of the main boundaries of division occurring at these boundaries. Waves of these types were detected by Ye. F. Savarenskiy (Ref.2) in recordings of distant earthquakes as being a distorting factor in determining the emanation angle of seismic beams. In recordings of distant earthquakes P-waves have a preferential period between 2 and 8 secs and the difference between the times of occurrence of waves of interest from the point of view of the present investigation does not exceed 3 secs. Therefore, in recordings of distant earthquakes the resolution of the entry of the secondary PS-type waves is very weak

Card 1/3

49-7-7/14  
On utilising short period seismographs for separating  
exchange waves on recordings of distant earthquakes. (Cont.)

displacement of the soil in the phase P of the order of  
0.05 to 0.1  $\mu$  at the above mentioned short periods. The  
data on the characteristic of the investigated waves and  
on the main disturbances leads to the conclusion that  
seismographs of the system proposed by B. B. Golitsyn and  
seismographs of the general CBK and CK type are unsuitable  
for separating out the exchange waves. However, short  
period seismographs of the types BCX and CX can be  
utilised for recording distant earthquakes if appropriate  
characteristics are chosen. Their recording enables the  
separation of exchange waves forming at deep division  
boundaries in the Earth's crust. The depth of location  
of the division boundaries at which formation of exchange  
waves takes place is determined according to the data of a  
seismic station at the spot of its location. The necessary  
observation time in the case of sufficiently sensitive  
seismographs can be of the order of 10 to 15 days.  
There are one plate, 3 figures, 2 tables and 6 Slavic  
references.

SUBMITTED: December 13, 1956.

ASSOCIATION: Institute of Physics of the Earth, Ac.Sc.  
(Akademiya Nauk SSSR Institut Fiziki Zemli).

AVAILABLE: Library of Congress

SHEBALIN, M.V.

Correlations between the magnitude and intensity of earthquakes  
as a function of the depth of the focus. Biul. Sov. po seism.  
no.6:122-126 '57. (MIRA 11:3)

1. Institut fiziki Zemli Akademii nauk SSSR, Moskva.  
(Seismometry)

SHEBALIN, N. V.

AUTHOR: Savarenskiy, Ye. F.

49-4-23/23

TITLE: First seismological conference of the Czechoslovak Ac.Sc.  
(O pervoy seysmologicheskoy konferentsii Chekhoslovatskoy Akademii Nauk).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya,  
1957, No.4, pp.558-559 (USSR)

ABSTRACT: This conference was held between March 18 and 22, 1957 in Liblice, the aim of which was to acquaint seismologists of various countries with results of studies of seismicity, determination of the intensity of earthquakes, study of the structure of the Earth's crust, investigation of the propagation of seismic waves and design of apparatus. In addition to Czech seismologists, there were three seismologists from Hungary, three from Eastern Germany, two from Poland, one from Roumania and five from the Soviet Union. The conference was also attended by the General Secretary of the International Association of Seismology and Physics of Mineral Resources, Prof. Rothe of France. A total of thirty papers were read. Soviet delegates read the following papers:

1. Yu. V. Riznichenko "Study of the structure of the Earth's crust in the U.S.S. by the method of deep seismic sounding";

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First seismological conference of the Czechoslovak Ac.Sc.

2. P. S. Veytsman "On the results of work of deep seismic sounding of the Earth's crust in one of the mountainous regions of Central Asia;
3. N. V. Shebalin "Evaluation of the depth of the asthenosphere in the region of the Vrancea (Carpathian) mountains from the point of view of the relation between the intensity and the "ballicity" of earthquakes";
4. S. L. Solov'yev "On corrections to the values of earthquake intensities";
5. D. P. Kirnos and D. A. Kharin "Seismography for studying the seismic effect of explosions, vibrations of engineering structures and nearby earthquakes";
6. Ye. S. Borisevich "Magneto-electric oscillographs for scientific geophysical investigations";
7. Yu. V. Riznichenko "Application of ultrasound for seismological problems".

At the end of the report a brief table is given of the Czechoslovak stations participating in work in conjunction with the International Geophysical Year in which the type of instruments and the subject of investigations are also mentioned.

Card 2/2

AVAILABLE: Library of Congress.

AUTHORS: Solov'yev, S. L. and Shebalin, N. V.

49-7-6/14

TITLE: Determination of the intensity of earthquakes from the displacement of the soil in surface waves. (Opredeleniye intensivnosti zemletryaseniya po smeshcheniyu pochvy v poverkhnostnykh volnakh).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1957, No.7, pp. 926-930 (USSR)

ABSTRACT: In the atlas on the seismicity of the USSR (Ref.1) and in the Bulletin of the Seismic Stations of the USSR for 1955 (Publ. Ac.Sc. USSR, Moscow, 1956), a classification is given of the earthquakes which is based on their intensity M. In conjunction with this classification methods were studied of determining M which are based on utilising surface waves. In this paper the results are dealt with relating to obtaining of formulae and tables which are suitable for practical calculation of the value M. In earlier work, one of the authors (Ref.2) proposed to use for the intensity M the logarithm of the maximum speed of the horizontal movement of the soil in the surface waves and, accordingly, the following formula is applied for this purpose:

Card 1/2

$$M = \lg \frac{A}{T} - \lg \left( \frac{A}{T} \right)^x \quad (1)$$

SOV/ 49-58-11-12/18

AUTHORS: Moskvin, A. G. and Shebalin, N. V.

TITLE: Seismograph Frequency Characteristics of Pulkovo (Chastotnyye kharakteristiki seysmografov stantsii "Pulkovo")

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 11, pp 1389-1393 (USSR)

ABSTRACT: The seismic station "Pulkovo" received in 1951 a new seismograph of the Kirnos-type to replace the old one of Galitzin-type. Both apparatus operated for several years simultaneously. It was observed that a constant interference with the periods of 0.2-1.0 sec occurred on both seismographs. Therefore, when a reconstruction of the building took place in 1956 a series of experiments was made in order to find the best position for frequency characteristics. The spectrum of interference was obtained from 0.1 to 10 sec by means of the oscillographs VEGIK (Ref. 1) and OSB-1 (Ref. 2) with the galvanometers GB-III and GB-IV. The most frequent characteristics obtained are shown in Table 1. An example of the spectral curve of

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SOV/ 49-58 11-12/18

## Seismograph Frequency Characteristics of Pulkovo

N-Z is represented in Fig.1. It can be seen that the minimum of the interference is found at the point of 1 sec, as represented in Fig.2, which is the spectrum of the horizontal components for 12 separate stations. A seismograph can be considered as true if the amplitude of disturbance is not greater than 0.2 mm for the periods less than 2 sec and 0.5 to 0.7 mm for those of 5 sec. A graph based on this assumption is shown in Fig.3, representing the curves of permissible magnification,  $V$ , and frequency characteristics of seismographs of Pulkovo. The analysis of the graph demonstrates that a broad band of characteristics cannot give good results in the range of periods 0.2-0.8 sec and 3-7 sec. These characteristics (magnified about 1500 times) fall far above the curve of permissible magnification. Therefore to improve the value of recording the earthquakes, selected characteristics should be used. These were found by means of 4 pendulums. Their parameters related to the frequency characteristics (Fig.3) are shown in Table 2. As it can be seen from the table, the maximum magnification  $V_{\text{max}}$  of each characteristic does not differ much from the mean

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SOV/ 49-58-11-12/18

Seismograph Frequency Characteristics of Pulkovo

magnification which shows freedom from resonance. As a result, an improvement was obtained in registration of various seismic waves with the better determination of the original phase.

(Fig. 4), better distinction (Fig. 5) and better registration of surface waves of weak earthquakes (Fig. 6). It could be said that registration was greatly improved, there was more exact interpretation, and a greater number of the earthquakes was recorded. There are 2 tables, 6 figures and 3 Soviet references.

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